



# Aziz Gaaya

Computer Engineering Student – Data Science & Artificial Intelligence  
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## PROFILE

Computer engineering student specializing in Data Science, Machine Learning, and AI systems. Skilled in Python-based analytics, model development, and explainability tools. Passionate about building interpretable and efficient ML models that transform data into actionable insights. Adaptable, analytical, and experienced in agile environments.

## ACADEMIC BACKGROUND

**Institut Supérieur d'Électronique de Paris (ISEP) – École d'Ingénieurs du Numérique** Paris, France  
*Exchange Program (Engineering Cycle) – Data Science & AI Track* Sep 2025 – Jun 2026

**Private Higher School of Engineering and Technology (ESPRIT)** Ariana, Tunisia  
*Computer Engineering Program – Artificial Intelligence Major* Sep 2023 – Jun 2026

**Preparatory Institute for Engineering Studies El Manar (IPEIEM)** Tunis, Tunisia  
*Preparatory Diploma in Mathematics and Physics* Sep 2021 – Jun 2023

## TECHNICAL SKILLS

**Languages :** Python, Java, SQL, R, C++, JavaScript  
**Data Science & ML Libraries :** NumPy, Pandas, Scikit-learn, TensorFlow, PyTorch, Matplotlib, Seaborn, Jupyter  
**AI & NLP Tools :** LLMs, RAG, Hugging Face, OpenAI API, LangChain, Transformers, NLTK, SpaCy, SHAP  
**Databases & Cloud :** MySQL, MongoDB, Firebase, Docker, Azure, REST APIs  
**Other :** Git, Agile/Scrum, Data Visualization, Statistics, Explainable AI, Machine Learning Lifecycle

## PROFESSIONAL EXPERIENCE

**AI Development Intern – ESPRIT (StreamPost AI)** | *Python, AssemblyAI, ElevenLabs* Jul 2025 – Sep 2025

- Developed an AI-powered platform for real-time social media monitoring and publishing.
- Implemented intelligent scraping with LLMs to auto-select relevant links and generate multi-format posts.
- Built live transcription and “hot moments” detection, with instant GIF/JPG capture and MongoDB storage.
- Automated social publishing workflows with integrations for Twitter, Instagram, and TikTok using SSE pipelines.

**Machine Learning Intern – STAR Assurance** | *Python, Scikit-learn, Pandas, SQL* Jul 2024 – Aug 2024

- Developed predictive models to identify potential insurance claims anomalies and improve risk scoring.
- Automated data preprocessing pipelines and feature extraction from internal databases.
- Conducted exploratory data analysis and created interactive dashboards for internal teams.
- Collaborated on a confidential project focused on optimizing decision-making through ML-driven insights.

**Data Systems Intern – FinConnect Solutions** | *Spring Boot, SQL, Angular, MySQL* Jun 2023 – Jul 2023

- Developed analytical modules to monitor performance metrics and client activity.
- Designed dashboards and automated reports for internal analytics and KPI visualization.
- Improved database query performance and supported data integrity validation across departments.

## PROJECTS

**EMG Signal Classification using LightGBM & SHAP** | *Python, LightGBM, SHAP, NumPy* Sep 2025 – Jan 2026

- Built a complete ML pipeline for EMG signal classification (Healthy vs Myopathy) achieving 92% accuracy.
- Implemented signal preprocessing (Butterworth filters, Welch PSD) and extracted 16+ statistical features.
- Applied SHAP for explainability — analyzing global and local feature importance and interactions.
- Designed future improvements : feature selection, composite indices, and k-fold validation.

**Kiddo AI** | *Python, LLM, Coqui XTTS, GenAI* Jan 2025 – May 2025

- Created an AI-powered educational assistant combining NLP and speech synthesis for personalized tutoring.
- Used emotion detection models to analyze user engagement via voice and image data.
- Converted 40+ educational documents into structured datasets for question-answer generation.
- Analyzed engagement data from 100+ users to improve interaction quality by 15% .

## LEADERSHIP AND COMMUNITY INVOLVEMENT

**AIIESEC Manouba :** Vice President (2024), Team Leader (2023) | **Rotaract Manar :** Internal Committee Chair (2022)

## LANGUAGES & SOFT SKILLS

**Languages :** Arabic (Native), French (C1), English (C1)  
**Soft Skills :** Analytical Thinking, Problem Solving, Teamwork, Leadership, Communication